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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/742,911	12/23/2003	Hee Jung Hong	8734.282.00 US	7164
30827	7590 12/11/2007 ONG & ALDRIDGE LLP		EXAMINER	
1900 K STREE	ET, NW		BRIGGS, NATHANAEL R	
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2871	
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			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			3/1			
	Application No.	Applicant(s)	2			
	10/742,911	HONG ET AL.				
Office Action Summary	Examiner	Art Unit	-			
	Nathanael R. Briggs	2871				
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence add	dress			
Period for Reply	VIC CET TO EVEIDE AMONT	IVEN OR THIRTY (2)	N DAVE			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	ON. timely filed om the mailing date of this co NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 9/12	<i>У</i> 07.					
	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5,8-13,15 and 16</u> is/are pending in	the application.					
4a) Of the above claim(s) is/are withdra						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,8-13,15 and 16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	•	-				
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	ce Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some c) ☐ None of. 1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
_ , , , , ,	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea	iu (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Motice of References Cited (PTO-892)	4) Interview Summa					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa					
Paper No(s)/Mail Date <u>8/16/07</u> .	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12 September 2007 has been entered.

Information Disclosure Statement

2. The information disclosure statement filed 11 July 2007 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

Claim Objections

3. Claim 9 is objected to because of the following informalities: The word "fast" of the last paragraph should be the word "first". Appropriate correction is required.

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Response to Arguments

4. Applicant's arguments with respect to claims 1-5, 8-13, and 15-16 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2, 4, 8-10, 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al. (US 2001/0043291) in view of Nakanishi et al. (US 6,781,642).
- Regarding claims 1 and 9, Kono discloses a touch panel for a display device and a method of fabricating a touch panel for a display device (see figures 1, 4 and 5; for instance) having a driver IC, comprising: forming upper (2) and lower (3) substrates; forming first (4) and second (5) transparent electrodes on opposing entire surfaces of the upper (2) and lower (3) substrates; forming first (6) and second (6) metal electrodes being electrically connected to the first transparent electrode (4) in the periphery the first transparent electrode (4) along a first direction, and third (16) and fourth (16) metal electrodes being electrically connected to the second transparent electrode (5) in the periphery of the upper and lower sides on the second transparent electrode (5) along a second direction substantially perpendicular to the first direction; a plurality of metal electrodes (7) adjacent to each of the first (4) and second (5) transparent electrodes on

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the respective substrate of the first (4) and second (5) transparent electrodes that electrically connect the first (4) and second (5) transparent electrodes to each other in response to a touch on the upper substrate (2); and forming a flexible printed cable (11) having a plurality of signal applying lines extended from the upper (2) and lower (3) substrates, and having a first part (parallel with the right-hand substrate (3) edge) extended from the edge of the display device to connect the signal applying lines to the plurality of metal electrodes and a second part (portion perpendicular from the substrate (3) edge) extended from the first part, the first and second parts being perpendicular to each other. However, Kono does not expressly disclose wherein the flexible printed cable extended to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable is bent over an edge of the upper and lower substrates from a top to a bottom of the display device, and has the second part overlapping the driver IC.

8. Regarding claims 1 and 9, Nakanishi discloses a touch panel for a display device and a method of fabricating a touch panel for a display device (see figures 5 and 6, for instance) having a driver IC (44), comprising: a flexible printed cable (47) extended to a rear side of the display device (43) for applying signal voltages to the metal electrodes (21), wherein the flexible printed cable (47) is bent over an edge of the upper and lower substrates (41) from a top to a bottom of the display device (43), and having a first part (parallel with the right-hand substrate (41) edge) extended from the edge of the display device (43) to connect the signal applying lines to the plurality of metal electrodes (21)

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and a second part (portion perpendicular from the substrate (41) edge) extended from the first part, and has the second part overlapping the driver IC (44).

- 9. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the connection structure of Nakanishi in the touch panel of Kono. The motivation for doing so would have been to manufacture a lightweight, touch panel with sufficient strength to withstand mechanical shocks or drops, as exemplified by Nakanishi (column 7, lines 38-51). Claims 1 and 9 are therefore unpatentable.
- 10. Regarding claims 2 and 10, Kono in view of Nakanishi discloses the touch panel of claim 1 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6, for instance), and Kono further discloses wherein the flexible printed cable (11) has a plurality of throughholes (broken lines on element 11) between the first part and the second part of the flexible cable. Claims 2 and 20 are therefore unpatentable.
- 11. Regarding claims 4 and 12, Kono in view of Nakanishi discloses the touch panel of claim 1 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6, for instance), and Nakanishi further wherein the flexible printed cable (47) extends through the driver IC (44) of the display device (43) to be connected to a printed circuit board (44). Claims 4 and 12 are therefore unpatentable.
- 12. Regarding claims 8 and 16, Kono in view of Nakanishi discloses the touch panel of claim 1 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6, for instance), and Kono further discloses wherein the display device is a liquid crystal display device.

 Claims 8 and 16 are therefore unpatentable.

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- 13. Claims 3, 5-7, 11, 13, and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al. (US 2001/0043291) in view of Nakanishi et al. (US 6,781,642) as applied to claims 1-2, 4, 8-10, 12 and 16 above, and further in view of Murakami et al. (US 6,570,707).
- 14. Regarding claims 3 and 11, Kono in view of Nakanishi discloses the touch panel of claim 1 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6, for instance). However, Kono in view of Nakanishi does not expressly disclose wherein a portion of first signal applying lines of the plurality of signal applying lines on a lower surface of the first part of the flexible printed cable connect to a portion of the first signal applying lines of the plurality of signal applying lines on an upper surface of the second part of the flexible printed cable.
- 15. Regarding claims 3 and 11, Murakami discloses a touch panel (see figure 2, for instance), wherein a portion of first signal applying lines (129) of the plurality of signal applying lines (129) on a lower surface of the first part of the flexible printed cable connect to a portion of the first signal applying lines (129) of the plurality of signal applying lines on an upper surface (129) of the second part of the flexible printed cable (190; column 4, lines 33-41).
- 16. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the line structure of Murakami in the touch panel of Kono in view of Nakanishi. The motivation for doing so would have been to reduce the cost of materials and the steps needed for manufacturing, as taught by Murakami (column 4, lines 42-45). Claims 3 and 11 are therefore unpatentable.

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- 17. Regarding claims 5 and 13, Kono in view of Nakanishi, in further view of Murakami discloses the touch panel of claim 3 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6; Murakami figure 2, for instance), and Murakami further discloses wherein the signal applying lines (122) for applying signals to the metal electrodes (114) on the upper substrate (110) are printed on the upper surface of the first part of the flexible printed cable (190), and the signal applying lines (123) for applying signals to the metal electrodes (134) on the lower substrate (130) are printed on the lower surface of the first part of the flexible printed cable (190). Claims 5 and 13 are therefore unpatentable.
- 18. Regarding claims 7 and 15, Kono in view of Nakanishi, in further view of Murakami discloses the touch panel of claim 1 (see Kono figures 1, 4 and 5; Nakanishi figures 5 and 6; Murakami figure 2, for instance), and Murakami further discloses wherein the first, second, third, and fourth metal electrodes (114, 134) are connected to first, second, third, and fourth signal applying lines (122, 123) of the plurality of signal applying lines. Claims 7 and 15 are therefore unpatentable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathanael R. Briggs whose telephone number is (571) 272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 11/30/2007

A SCHECHTER

ABY EXAMINER